922 C25

M I N I T O R x.1

Friday 8 July 1982
PCS 089-681021

D i s p l a y .

```
A       --  display all (non-zero) registers

D3      --  display a register:  D0 .. D7,  A0 .. A7,
        --  or  PC = Program counter,   SS = System A7,
        --      SR = Status register,   US = User   A7.

3f00        --  display memory at address  3f00  hex.

3f00.100    --  display  100 bytes of memory at  3f00.
```

S e t .

```
D3 = eeeeffff           -- set a register

3f00 = 123e             -- set a memory word

3f00 = 1 2 3 ffff       -- set memory words

3f00.1 = 1 2 3          -- set memory bytes  (echoes words  3f00.20)

3f00.4 = 1 2 3          -- set memory longs

ffc000.10 = 00000ff     -- fill memory longs

3f00 <linefeed>         --  open words, like ODT:  ^ up, linefeed down
                        --  (too big for some minitor proms)
```

O t h e r s .

```
G 4c00          --  Go to 4c00
G               --  Go to current PC


H               --  Host: connect console  <-->  host port fffd40
                --  until either one sends a ctl-A.
                --  'H fff012'  connects console  <-->  port fff012.


< copy xxx      --  down load from the host:
                --  First send it 'copy xxx',  a file of minitor Sets
                --  like  '1c000 = 0123 abcd ...'
                --  Then read these from the host,  until it ends with ctl-A.
```

B r e a k , T r a c e .

```
B 310c      -- break (call the minitor) at 310c

B -310c     -- remove a breakpoint
```

```
B -          -- remove all breakpoints


T 5          -- trace the next 5 instructions;  always does a Go !

T -          -- turn tracing off

TC 5         -- trace the next 5 calls and returns

             --  in 'big' minitor proms:
        O  d0 a6 a7  1000.8      --- limit trace Output
        O                        --- output the current list
        O -                      -- reset trace output to All
```

Others..

```
C 4c00                          --- Call the subroutine at 4c00

C 4c00  00010002  ffffffff   --  Call with parameters (longs only)

L  1c000  4e75                  -- look for word 4e75, starting from 1c000

M  ff8000  8000  10             -- move   from  to  len

I            -- initialize (mem 8, c, 10, 24, 80)


RX  or  RL  or  R6 (default):  set the /unix disk type:
        RX is floppy disk (double density) at fffe78,
        RL is RL01/02 disk at  fff900,
        R6 is RK06/07 disk at  ffff20.

/unix        -- load /unix;   then  G 0.  Or:
/sa/mkfs     -- load /sa/mkfs;   then  G 0
```

Display:

```
A       -- display all (non-zero) registers

D3      -- display a register:  D0 .. D7,  A0 .. A7,
        -- or  PC = Program counter,   SS = System A7,
        --     SR = Status register,   US = User   A7.

3f00        -- display memory at address  3f00  hex.

3f00.100    -- display  100 bytes of memory at  3f00.
```

Set:

```
D3 = eeeeffff           -- set a register

3f00 = 123e             -- set a memory word

3f00 = 1 2 3 ffff       -- set memory words

3f00.1 = 1 2 3          -- set memory bytes  (echoes words  3f00.20)

3f00.4 = 1 2 3          -- set memory longs

ffc000.40 = 00008?ff    -- fill memory longs

3f00 <linefeed>         -- open words, like ODT:  ^ up, linefeed down
                        -- (too big for some minitor proms)
```

Others:

```
G 4c00          -- Go to 4c00
G               -- Go to current PC

H               -- Host:  connect console  <-->  host port fffd40
                -- until either one sends a ctl-A.
                -- 'H fff012'  connects console  <-->  port fff012.

< copy xxx      -- down load from the host:
                -- First send it 'copy xxx',  a file of minitor Sets
                -- like  '1c000 = 0123 abcd ...'
                -- Then read these from the host,  until it ends with ctl-A.
```

Break, Trace:

```
B 310c      -- break (call the minitor) at 310c

B -310c     -- remove a breakpoint
```

```
B -          -- remove all breakpoints


T 5          -- trace the next 5 instructions;  always does a Go !
T -          -- turn tracing off
TC 5         -- trace the next 5 calls and returns

             --  in 'big' minitor proms:
O  d0 a6 a7  1000.8      --- limit trace Output
O                        --- output the current list
O -                      -- reset trace output to All
```

Others.

```
C 4c00                          --  Call the subroutine at 4c00
C 4c00  00010002  ffffffff      --- Call with parameters (longs only)
L  1c000  4e75                  -- look for word 4e75, starting from 1c000
M  ff8000  8000  10             -- move . from  to  len
I            -- initialize (mem 8, c, 10, 24, 80)


RT  or  RL  or  RX:  set the /unix disk/tape type:
        RX is floppy disk (double density) at fffe78,
        RL is RL01/02 disk at  fff900,
        RT is TU10    tape at  fff550.

/unix        -- load /unix;   then  G 0.  Or:
/sa/mkfs     -- load /sa/mkfs;   then  G 0
```